

WHAT IS CLAIMED IS:

Sub
Alt

1. An image display method of displaying an image on a monochrome display having sub-pixel structure in a main pixel comprising the steps of:

transferring digital image for displaying, by way of an interface for said digital data, image expressed by a number of steps of gradation for one sub-pixel being different from that for the other sub-pixels, using image data corresponded to said main pixel of said monochrome display; and

reproducing said image data corresponded to a number of steps of gradation as same as a number of steps of gradation of said one sub-pixel, using said digital data for displaying said transferred image.

2. The image display method according to claim 1, said image data provided to said one sub-pixel are data provided for said displayed image, and said image data provided to the other sub-pixel are differential data with relative to said image data provided to said one sub-pixel.

3. The image display method according to claim 1, as to said image data transferred to said monochrome

display:

a number of steps of gradation of said image data corresponded to said one sub-pixel, being as same as a number of steps of gradation of an image displayed in said monochrome display;

a number of steps of gradation of said image data corresponded to said the other sub-pixels being represented by 1 bit;

said monochrome display adding said image data represented by 1 bit to the image data of said one sub-pixel to create image data of said the other sub-pixel, so that said image data is produced by sub-pixels corresponding to a number of steps of gradation being same between each of said pixels.

4. The image display method according claim 1, said number of steps of gradation of said image displayed by said monochrome display being represented using 8 bit data.

5. The image display method according to claim 1, said monochrome display being a liquid crystal display.

6. The image display method according to claim 1, said monochrome display whose pixel number is equal to or larger

than a pixel number of QXGA, having 2048 pixel multiplied by 1563 pixel.

7. The image display method according to claim 1, a plurality of monochrome displays being connected to one video card.

8. The image display method according to claim 1, said monochrome display displaying an image in a portrait orientation.

9. An image display apparatus comprising:
a monochrome display unit having a sub-pixel structure in a main pixel which displays an image using image data;
an interface unit by way of which said image data are input to said monochrome display unit;
a data transferring unit which transfers image for displaying, by way of said interface unit, image expressed by a number of steps of gradation for one sub-pixel being different from that for the other sub-pixels, using image data corresponded to said main pixel of said monochrome display; and
an image displaying unit which reproduces said image

data corresponded to a number of steps of gradation as same as a number of steps of gradation of said one sub-pixels, using said digital data for displaying said transferred image.

10. The image display method according to claim 9, said image data provided to said one sub-pixel are data provided for said displayed image, and said image data provided to the other sub-pixel are differential data with relative to said image data provided to said one sub-pixel.

11. The image display apparatus according claim 9, said number of steps of gradation of said image displayed by said monochrome display being represented using 8 bit data.

12. The image display method according to claim 9, said monochrome display being a liquid crystal display.

13. The image display method according to claim 9, said monochrome display whose pixel number is equal to or larger than a pixel number of QXGA, having 2048 pixel multiplied by 1563 pixel.

14. The image display method according to claim 9, a

plurality of monochrome displays being connected to one video card.

15. The image display method according to claim 9, said monochrome display displaying an image in a portrait orientation.